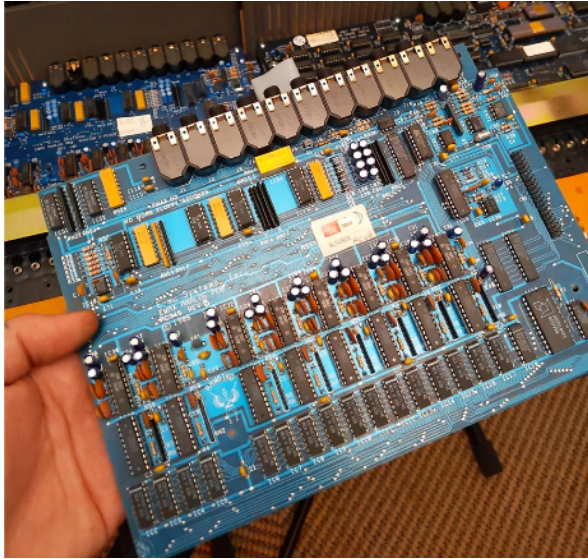


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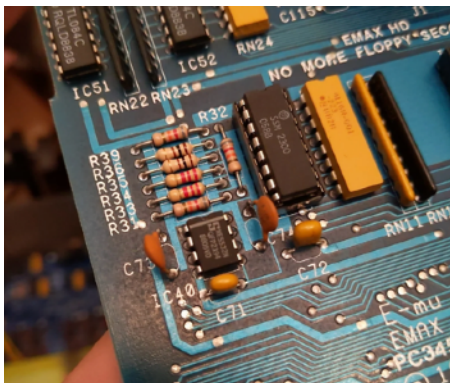
EMAX I Sample Input Monitor

First carefully open up your EMAX and remove the Analog PCB by removing all hardware that affixes it to the EMAX chassis.



EMAX Analog Board

What you are going to be looking for is a national semiconductor 8-pin IC labeled **NE5532** that occupies **IC40** location on the PCB.

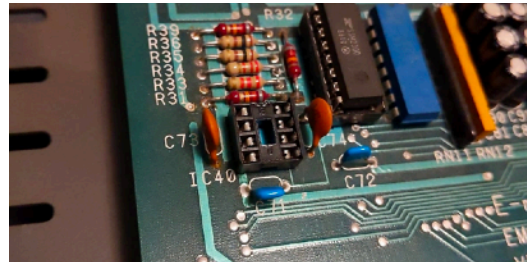


Remove the Stock IC

Using a flush cut pair of dykes clip the legs of the OpAmp **IC40** and then desolder and clean the holes.

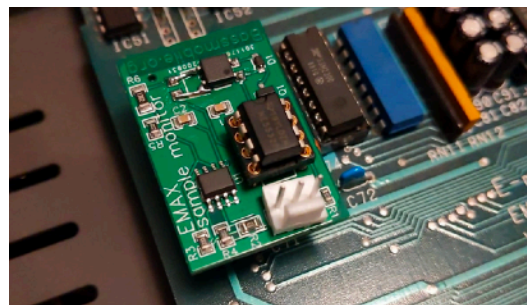
PRO TIP!

It is highly recommended that whenever an IC that was soldered to a board is removed, an IC socket be put in its place. If you have an 8-pin DIP IC Socket handy, install it before installing the modification PCB.



IC Socket installed at location IC40

When you install the modification pay attention to the orientation of the IC.

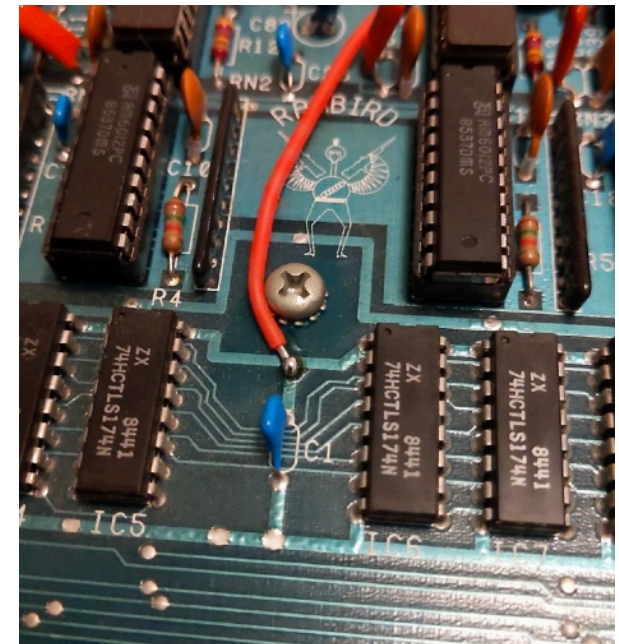


Installed Output Mod Board

Wiring it all up

Extreme caution must be taken at this step. You are doing open heart surgery on a 30+ year old electronic instrument. One ESD discharge can fry any one of the vintage IC's on the EMAX analog board! **BE VERY CAREFUL!**

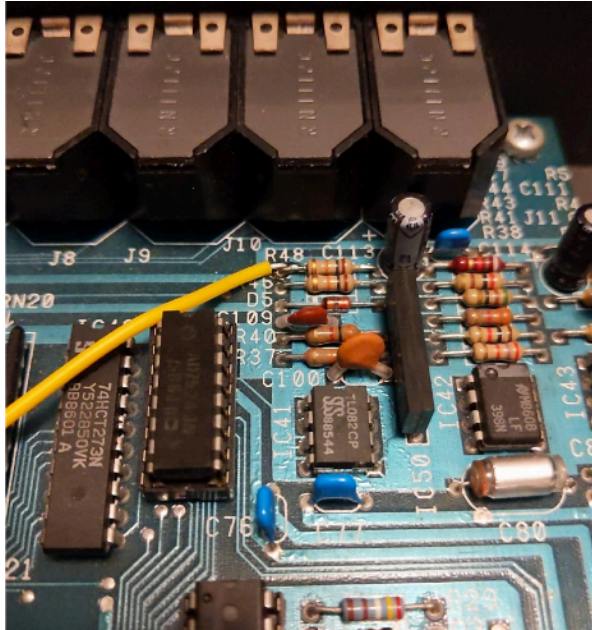
Find the included **JST** connector with red yellow and green wires. Solder those wires in these following locations in the pictures.



Red Wire @ **C1**

The red wire is soldered to top leg of capacitor **C1** on the analog board. You may take a sharp object, like a Razor knife to scrape a small amount of the solder mask off to reveal a portion of the PCB trace (see photo). This will make a more convenient location to solder on to.

Wiring continued



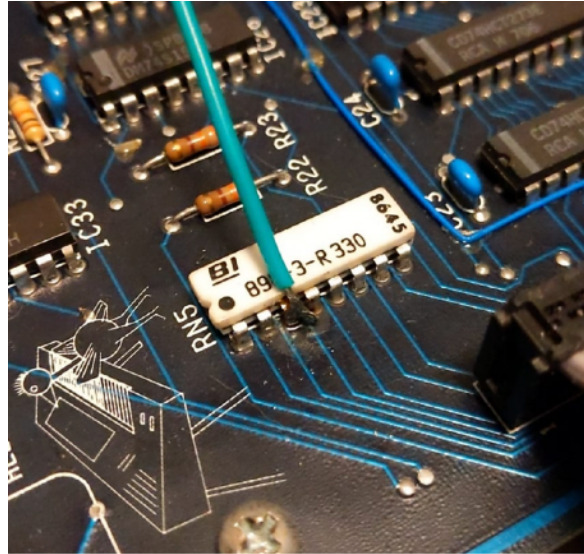
Yellow Wire @ **R48**

The yellow wire is soldered to the right leg of resistor **R48**, also on the analog board. Make sure to cut off any extra wire before soldering the wire end to the resistor leg. It will help if the ends of the stripped wire are first tinned with solder.



MG Chemicals 8341 Flux Paste

Final connections



Green Wire @ **RN5** (digital board)

The final connection to make is the remaining green wire. It is connected to a leg on a resistor network labeled **RN5** that is located on the digital board. You will notice that the green wire is LONG. If you are installing the MOD on an EMAX Rack unit, trim off the majority of the excess after you measure the appropriate length that you will need to make the connection. This one can be a little bit tricky to solder because of the nickel plating on the legs of the resistor network IC will be slightly corroded from age.

PRO TIP: When soldering to old components, first clean the area with 99% ISO Alcohol. Then use some *Scotch-Brite™* along the component legs to roughen them up slightly and again, this is where if you have some good flux paste it will really come in handy.

Finishing up

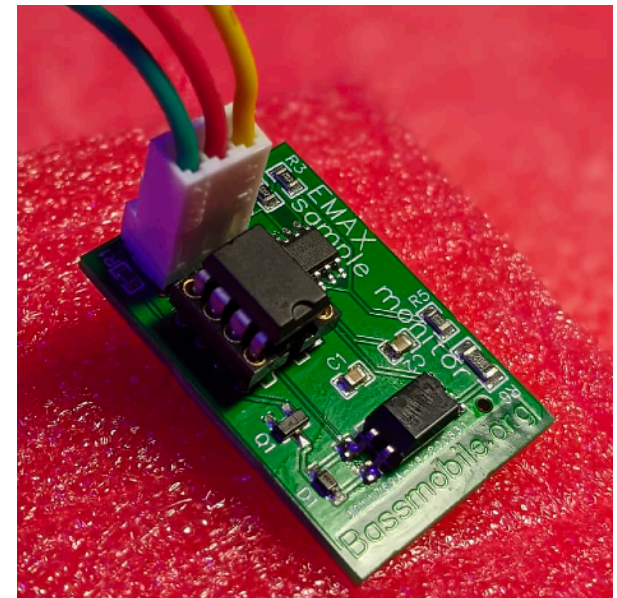
Check to make sure that all of your solder joints are clean, and firm. If any residue from solder flux remains, use a Q-tip and more ISO Alcohol to clean the area. Install zip-ties as needed to secure any loose or dangling wires.

Very carefully put the analog board back in place and connect everything up.

Double check that you have not left anything loose inside the enclosure before you close up the EMAX. That's it!

Power on, plug in, and **ENJOY!**

Thanks for being a Bassmobile customer!



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